Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Juder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

IUITIDEI.					
	Substitute for for	m 1449B/	PTO	·	Complete if Known
	INFORMATION	DISCLO	SURE	Application Number	-Unassigned 10/6/2,405
	STATEMENT BY	APPLI	CANT	Filing Dat	07/03/2003
	Date Submitted	· July 3	วกกร	First Named Inventor	Hiroshi WATANABE
	Date Submitted	. July J,	2005	Group Art Unit	Unassigned 2854
	(use as many shee	ts as ne	cessary)	Examiner Name	Unassigned NOLAN
Sheet	1	of	1	Attorney Docket Number	016907-1569

			U.S. PATENT DOCUMENTS	•		
	U.S. Patent Document		Name of Batantas or Applianut of	Date of Publication of	Pages, Columns, Lines,	
Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	
A1	4,275,405	1	SHANNON	06/23/1981		
A2	5,760,644		LANCASTER ET AL.	06/02/1988		
A3	6,111,288		WATANABE ET AL.	08/29/2000		
		<del> </del>				
1	No.1 A1 A2	Cite Number A1 4,275,405 A2 5,760,644	Cite No. 1 Number Code <sup>2</sup> (if known) A1 4,275,405 A2 5,760,644	Name of Patentee or Applicant of Code <sup>2</sup> (if known)   Name of Patentee or Applicant of Cited Document	Cite No. 1         Kind Code <sup>2</sup> (if known)         Name of Patentee or Applicant of Cited Document         Date of Publication of Cited Document MM-DD-YYYY           A1         4,275,405         SHANNON         06/23/1981           A2         5,760,644         LANCASTER ET AL.         06/02/1988	

				FC	DREIGN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No. <sup>1</sup>	Offic	Foreign Patent D e <sup>3</sup> Number <sup>4</sup>	ocument Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т8
	A4	JP	2002-246887	Α	INTERNATIONAL BUSINESS MACHINE CORP.	08/30/2002		Abstract
Coh	A5 ·	JР	10-189780	A	SONY CORP.	07/21/1998	,	Abstract
an	A6	JP	2002-76338	_ A	TOSHIBA CORP.	03/15/2002	· ·	Abstract
CH	A7	JP	10-261786	Α	TOKYO SHIBAURA ELECTRIC CO.	09/29/1998		Abstract
can	A8	JP	9-127271	A	SONY CORP.	05/16/1997		Abstract

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

Examiner Signature	NOLAN.	Date Considered	5/13/05
ACTIONAL			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¹For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria. Virginia 22313-1450.

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

	TIPE	Substitute for form 1	449B/P	то		Complete if Kn wn	
	D., E SAN	<b>FORMATION DIS</b>	SCLOS	URE	Application Number	10/612,405	
	TÂE"	TATEMENT BY A	PPLIC	ANT	Filing Dat	07/03/2003	
	AN-1 3, 2004 2	Data Submit	14 A-B-OH	1 3 2004	First Named Invent r	Hiroshi WATANABE	
_	W. J. S. COOL B.	Date Subinit	MAG	1 3 2007	Group Art Unit	2816	
PA	(Siste	as many sheets a	as nece	essary)	Examiner Name	Unassigned	
14	SAGREMARY	1	of	1	Attorney Docket Number	016907-1569	

				U.S. PATENT DOCUMENTS	3	
Examiner Initials*	Cite No.1	U.S. Patent Document		Name of Potentias as Applicant of	Date of Publication of	Pages, Columns, Lines, Where Relevant
		Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
CA	B1	4,588,901		MACLAY ET AL.	05-13-1986	
CH-	B2	5,387,897		BECHTLE ET AL.	02-07-1995	
<del>-</del> -						

	FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	F Office	oreign Patent [	Document Kind Code <sup>5</sup> (If known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>©</sup>			
CH_	В3	EP	0 395 829	A1	ROCKWELL INTERNATIONAL CORP.	11-07-1990					
CA	B4	wo	01/10292	A1	TECHNISCHE UNIVERSITEIT DELFT	02-15-2001					

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

7			
Examiner · Signature	NOLAN	Date Considered	5/13/05

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴Applicant is to place a check mark here if English language Translation is attached.

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

016907-1569

nder the Paperwork Reduction Act of 1925, no persons as required to respond to a collection of information unless it contains a valid OMB control

Under the Paperwork Reduction Act of 1895, no persons number.

Sheet

Substitute for form 1449B/PTC Complete if Known Application Number 10/612,405 INFORMATION DISCLOSURE STATEMENT BY APPLICANT 07/03/2003 **Filing Date** Hiroshi WATANABE **First Named Inventor** Date Submitted: April 20, 2005 **Group Art Unit** 2854 (use as many sheets as necessary) **Examiner Name** Charles H. Nolan, Jr.

Attorney Docket Number

			U.S. PATENT DOCUMENTS	i	·
	U.S. Patent Document			Date of Publication of	Pages, Columns, Lines, Where Relevant
No.1	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
	Cite No.1	Cite	Cite No.1 Number Code <sup>2</sup> (if	Cite No. 1 Number Code (if Number Code Code Code Code Code Code Code Code	Cite No. 1 Number Code 2 (if N

				F(	DREIGN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No.1	For Office <sup>3</sup>	reign Patent D Number <sup>4</sup>	Occument Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
Can	C1	CN	259054			10/10/1995		
								<u> </u>
								-
							<del></del>	+
								+
						<u> </u>	<del></del>	+
	.,				<del>                                     </del>			-
PW 11								9.7

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	τ°			
<del> </del>						

Examiner Signature	NOLAN	Date Considered	5/13/05

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>7</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.